

Metal Foam Market Size and Share, Industry Trends and Forecast 2026-2033



The [Metal Foam Market](#) is expected to grow rapidly due to increasing demand for lightweight, high-performance, and durable materials across automotive, aerospace, defense, energy, and industrial sectors. Growing requirements for energy absorption, thermal management, corrosion resistance, and vibration damping are driving adoption of metal foam in critical applications such as crash energy absorbers, heat exchangers, and structural components. Advancements in manufacturing technologies such as additive manufacturing, powder metallurgy, and advanced casting are enabling cost-effective production of complex metal foam structures. Additionally, increasing R&D investments in computational materials design and high-throughput experimentation are accelerating new metal foam formulations and wider commercialization.

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The **Metal Foam Market** size is valued at USD 103.4 Million in 2025 and is expected to reach USD 161.73 Million by 2035, expanding steadily at a CAGR of 4.58% over the forecast period 2026–2035.

The **U.S. Metal Foam Market** is valued at USD 28.60 Million in 2025 and is expected to reach USD 39.48 Million by 2035, growing at a CAGR of 2.53% over the forecast period from 2026 to 2035. The market is projected to grow steadily, driven by aerospace, defense, and automotive demand for lightweight, high-strength, and energy-absorbing materials. Growth is supported by advanced manufacturing technologies, ongoing R&D, and rising use in thermal management, filtration, and structural applications, despite high production costs. Additionally, increasing adoption in sustainable and energy-efficient construction materials is expected to create new opportunities for market expansion.

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Majoy Key Players



- **ERG Aerospace Corporation**
- **CYMAT Technologies Ltd.**
- **Alantum Corporation**
- **Ultramet**
- **Mott Corporation**
- **Mayser GmbH & Co. KG**
- **Havel Metal Foam GmbH**
- **Pohltec Metalfoam GmbH**
- **Aluminum King Co. Ltd.**
- **American Elements**
- **Recemat International BV**
- **Admatis Ltd.**
- **Armacell**
- **BASF SE**
- **Beihai Composite Materials Co. Ltd.**
- **Hunan Ted New Material Co. Ltd.**
- **Liaoning Rontec Advanced Material Technology Co. Ltd.**
- **CoreLite**
- **ExOne Company**

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- **By Material Type:** Aluminum foam dominated the market in 2025 with a 52% share, while nickel foam is projected to be the fastest-growing segment during 2026–2035.
- **By Product Type:** Open-cell metal foam led the market with a 55% share in 2025, whereas hybrid/composite metal foam is expected to register the fastest growth over the forecast period.
- **By Application:** Automotive and transportation accounted for the largest share of 35% in 2025, while heat exchangers and thermal management are anticipated to grow at the fastest rate during 2026–2035.
- **By End-Use Industry:** Aerospace held the largest share at 40% in 2025, with construction and infrastructure expected to be the fastest-growing segment during the forecast period.

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North America Metal Foam Market accounting for the highest regional revenue share of approximately 35% in 2025. North America's dominance is driven by a strong presence of aerospace, defense, and automotive industries that require lightweight, high-strength, and energy-absorbing materials. The region's advanced manufacturing capabilities, high R&D investment, and early adoption of innovative technologies like additive manufacturing support rapid metal foam development and commercialization



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